Appl. No. 09/865,471
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In response to the Office Action dated September 23, 2004

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): A method for real-time data scheduling for displaying real-time data using a server, the server collecting a plurality of data, assorting the data into a plurality of channel-data, giving a queue number and a timer on each channel-data, the client having a user interface, a plurality of queues, a plurality of channel ~~receiving~~ unit and a channel-data switching unit, the method for real-time data scheduling comprising:

a. making a channel request to the server from the channel unit;

b. receiving the channel request in the server and transferring the corresponding channel-data to the channel ~~receiving~~ unit;

c. receiving the channel-data in the channel unit, determining one of the queues that the channel-data to be entered according to the queue number of the channel-data, and defining the time to enter into ~~a plurality of~~ the queue ~~queues~~ according to the timer of the channel-data, ~~and defining the order of the channel-data in the corresponding queue according to the queue number of the channel-data~~ in which respective queues have a corresponding priority; and

d. retrieving the channel-data from the queues ~~in~~ by the channel-data switching unit ~~in the queues~~, in which data in the queue with higher priority is retrieved prior than that in the queue with lower priority, and displaying the data by the user interface unit and repeating step (a).

Claim 2 (Original): The method for real-time data scheduling of claim 1, wherein the queue number defines the priority of the data display.

Claim 3 (Original): The method for real-time data scheduling of claim 2, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 4 (Original): The method for real-time data scheduling of claim 2, wherein when the channel-data with higher priority of the data display cut in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 5 (Original): The method for real-time data scheduling of claim 1, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 6 (Original): The method for real-time data scheduling of claim 1, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 7 (Original): The method for real-time data scheduling of claim 6, wherein the pre-determined data is an advertisement.

Claim 8 (Original): The method for real-time data scheduling of claim 1, wherein the server provides the user interface.

Claim 9 (Currently Amended): The method for real-time data scheduling of claim 1, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ~~of including~~ a selected number ~~plurality~~ of the channel units.

Claim 10 (Currently Amended): A method for real-time data scheduling for displaying real-time data using a server, the server collecting a plurality of data, assorting the data into a plurality of channel-data, giving a priority number and a timer on each channel-data, the client having a user interface, a plurality of queues, a plurality of channel ~~receiving~~ unit and a channel-data switching unit, the method for real-time data scheduling comprising:

a. making a corresponding channel request to the server from the channel unit;

b. receiving the channel request in the server and transferring the corresponding channel-data to the channel ~~receiving~~ unit;

c. receiving the channel-data in the channel unit, determining whether ~~the client generates~~ a corresponding queue is already generated according to the priority number of the channel-data, if yes defining the time to enter into the queue according to the timer ~~and the priority number~~ of the channel-data, if not, generating the corresponding queue ~~according to the timer and the priority number of the channel-data as the reference so as to~~ ,and defining ~~define~~ the time for the channel-data to enter into the queue; and

d. retrieving the channel-data in the channel-data switching unit in the queues, displaying the data by the user interface unit and repeating step (a).

Claim 11 (Original): The method for real-time data scheduling of claim 10, wherein the queue number defines the priority of the data display.

Claim 12 (Original): The method for real-time data scheduling of claim 11, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 13 (Original): The method for real-time data scheduling of claim 11, wherein when the channel-data with higher priority of the data display cuts in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 14 (Original): The method for real-time data scheduling of claim 10, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 15 (Original): The method for real-time data scheduling of claim 10, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 16 (Original): The method for real-time data scheduling of claim 15, wherein the pre-determined data is an advertisement.

Claim 17 (Original): The method for real-time data scheduling of claim 10, wherein the server provides the user interface.

Claim 18 (Currently Amended): The method for real-time data scheduling of claim ~~20~~ 10, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ~~of including~~ a selected number ~~plurality~~ of the channel units.

Claim 19 (Currently Amended): A system for real-time data scheduling comprising:

a server used for receiving a channel request and providing a corresponding channel-data, wherein the channel-data further comprising a timer and a queue number ; and

a client having a user interface unit, a plurality of queues and a plurality of channel units;

wherein, the channel unit sends a channel request, receives corresponding channel-data, determines one of the queues that the channel-data to be entered according to the queue number of the channel-data, and defines the time to enter into the queue ~~a plurality of queues~~ according to the timer of the channel-data, ~~and defining the order of the channel-data in the corresponding queue according to the queue number of the channel-data~~ in which respective queues have a corresponding priority, and channel-data in the queue with higher priority is retrieved prior than that in the queue with lower priority

Claim 20 (Original): The system for real-time data scheduling of claim 19, wherein the queue number defines the priority of the data display.

Claim 21 (Original): The system for real-time data scheduling of claim 20, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 22 (Original): The system for real-time data scheduling of claim 20, wherein when the channel-data with higher priority of the data display cuts in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 23 (Original): The system for real-time data scheduling of claim 19, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 24 (Original): The system for real-time data scheduling of claim 19, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 25 (Original): The system for real-time data scheduling of claim 24, wherein the pre-determined data is an advertisement.

Claim 26 (Original): The system for real-time data scheduling of claim 19, wherein the server provides the user interface.

Claim 27 (Currently Amended): The system for real-time data scheduling of claim 19, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ~~of including~~ a selected number ~~plurality~~ of the channel units.

Claim 28 (Currently Amended): A system for real-time data scheduling comprising:

a server used for receiving a channel request and providing a corresponding channel-data, wherein the channel-data further comprising ~~a timer and~~ a timer and a priority number; and

a client having a user interface unit and a plurality of channel units;

wherein, the channel unit sends a channel request, receives the corresponding channel-data, determines whether ~~the client generates~~ a corresponding queue is already generated according to the priority number of the channel-data, if yes, defines the time to enter into the queue according to the timer ~~and the priority number~~ of the channel-data, if not, generates the corresponding queue, and ~~according to the timer and the priority number of the channel-data as the reference so as to define~~ defines the time for the channel-data to enter into the queue.

Claim 29 (Original): The system for real-time data scheduling of claim 28, wherein the queue number defines the priority of the data display.

Claim 30 (Original): The system for real-time data scheduling of claim 29, wherein the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 31 (Original): The system for real-time data scheduling of claim 29, wherein when the channel-data with higher priority of the data display cuts in the queue, the channel-data with higher priority of the data display is displayed prior than the channel-data with lower priority of the data display.

Claim 32 (Original): The system for real-time data scheduling of claim 28, wherein the channel-data display in the queue follows the FIFO (first in first out) rule.

Claim 33 (Original): The system for real-time data scheduling of claim 28, wherein when the channel-data in a plurality of queues is empty, pre-determined data with timer defining the display time of a later period is displayed simultaneously.

Claim 34 (Original): The system for real-time data scheduling of claim 33, wherein the pre-determined data is an advertisement.

Claim 35 (Original): The system for real-time data scheduling of claim 28, wherein the server provides the user interface.

Claim 36 (Currently Amended): The system for real-time data scheduling of claim 28, wherein the channel-data is dependent upon a client request, and the channel-data corresponds to ~~of including~~ a selected number ~~plurality~~ of the channel units.